Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Withdrawn-Currently Amended) A fluorescent protein described in the following (a) or (b):
 - (a) a protein having the amino acid sequence shown in SEQ ID NO: 1; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several 1 to 20 amino acids with respect to the amino acid sequence shown in SEQ ID NO: 1, which has fluorescence properties equivalent to those of the protein having the amino acid sequence shown in SEQ ID NO: 1, and which exists in the form of a monomer.
- 2. (Withdrawn-Currently Amended) A fluorescent protein described in the following (a) or (b):
 - (a) a protein having the amino acid sequence shown in SEQ ID NO: 3, 5, 7 or 9; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several 1 to 20 amino acids with respect to the amino acid sequence shown in SEQ ID NO: 3, 5, 7 or 9, and which has fluorescence properties equivalent to those of the protein having the amino acid sequence shown in SEQ ID NO: 3, 5, 7 or 9, respectively.

- 3. (Withdrawn-Currently Amended) A fluorescent protein described in the following (a) or (b):
- (a) a protein having the amino acid sequence shown in SEQ ID NO: 11, 13, 15, 17, 19, 21, 23, 25, 27 or 29; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several 1 to 20 amino acids with respect to the amino acid sequence shown in SEQ ID NO: 11, 13, 15, 17, 19, 21, 23, 25, 27 or 29, and which has fluorescence properties equivalent to those of the protein having the amino acid sequence shown in SEQ ID NO: 11, 13, 15, 17, 19, 21, 23, 25, 27 or 29, respectively.
- 4. (Currently Amended) DNA encoding a fluorescent protein described in the following (a) or (b):
 - (a) a protein having the amino acid sequence shown in SEQ ID NO: 1; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several 1 to 20 amino acids with respect to the amino acid sequence shown in SEQ ID NO: 1, which has fluorescence properties equivalent to those of the protein having the amino acid sequence shown in SEQ ID NO: 1, and which exists in the form of a monomer.
- 5. (Withdrawn-Currently Amended) DNA encoding a fluorescent protein described in the following (a) or (b):
 - (a) a protein having the amino acid sequence shown in SEQ ID NO: 3, 5, 7 or 9; or

- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several 1 to 20 amino acids with respect to the amino acid sequence shown in SEQ ID NO: 3, 5, 7 or 9, and which has fluorescence properties equivalent to those of the protein having the amino acid sequence shown in SEQ ID NO: 3, 5, 7 or 9, respectively.
- 6. (Withdrawn-Currently Amended) DNA encoding a fluorescent protein described in the following (a) or (b):
- (a) a protein having the amino acid sequence shown in SEQ ID NO: 11, 13, 15, 17, 19, 21, 23, 25, 27 or 29; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several 1 to 20 amino acids with respect to the amino acid sequence shown in SEQ ID NO: 11, 13, 15, 17, 19, 21, 23, 25, 27 or 29, and which has fluorescence properties equivalent to those of the protein having the amino acid sequence shown in SEQ ID NO: 11, 13, 15, 17, 19, 21, 23, 25, 27 or 29, respectively.
 - 7. (Currently Amended) DNA described in the following (a) or (b):
 - (a) DNA having the nucleotide sequence shown in SEQ ID NO: 2; or
- (b) DNA, which has a nucleotide sequence comprising a deletion, substitution, and/or addition of one or several 1 to 60 nucleotides with respect to the nucleotide sequence shown in SEQ ID NO: 2, and which has a nucleotide sequence encoding a protein that has fluorescence properties equivalent to those of the protein encoded by the nucleotide sequence shown in SEQ ID NO: 2 and that exists in the form of a monomer.

- 8. (Withdrawn-Currently Amended) DNA described in the following (a) or (b):
- (a) DNA having the nucleotide sequence shown in SEQ ID NO: 4, 6, 8 or 10; or
- (b) DNA, which has a nucleotide sequence comprising a deletion, substitution, and/or addition of one or several 1 to 60 nucleotides with respect to the nucleotide sequence shown in SEQ ID NO: 4, 6, 8 or 10, and which has a nucleotide sequence encoding a protein that has fluorescence properties equivalent to those of the protein encoded by the nucleotide sequence shown in SEQ ID NO: 4, 6, 8 or 10, respectively.
 - 9. (Withdrawn-Currently Amended) DNA described in the following (a) or (b):
- (a) DNA having the nucleotide sequence shown in SEQ ID NO: 12, 14, 16, 18, 20, 22, 24, 26, 28 or 30; or
- (b) DNA, which has a nucleotide sequence comprising a deletion, substitution, and/or addition of one or several 1 to 60 nucleotides with respect to the nucleotide sequence shown in SEQ ID NO: 12, 14, 16, 18, 20, 22, 24, 26, 28 or 30, and which has a nucleotide sequence encoding a protein that has fluorescence properties equivalent to those of the protein encoded by the nucleotide sequence shown in SEQ ID NO: 12, 14, 16, 18, 20, 22, 24, 26, 28 or 30, respectively.
 - 10. (Previously Presented) A recombinant vector having the DNA according to claim 4.
 - 11. (Previously Presented) A transformant having the DNA according to claim 4.

- 12. (Withdrawn) A fusion fluorescent protein, which consists of the fluorescent protein according to claim 1 and another protein.
- 13. (Withdrawn) The fusion protein according to claim 12, wherein another protein is a protein that localizes in a cell.
- 14. (Withdrawn) The fusion protein according to claim 12, wherein another protein is a protein specific to a cell organella.
- 15. (Withdrawn) The fusion protein according to claim 12, wherein another protein is a fluorescent protein.
- 16. (Withdrawn) The fusion protein according to claim 15, which generates intramolecular FRET.
- 17. (Withdrawn) A method for analyzing the localization or dynamics of a protein in a cell, which is characterized in that the fusion protein according to claim 12 is allowed to express in the cell.
- 18. (Currently Amended) A fluorescent reagent kit, which comprises: the fluorescent protein of claim 1;

DNA encoding a fluorescent protein described in the following (a) or (b):

(a) a protein having the amino acid sequence shown in SEQ ID NO: 1; or

(b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several 1 to 20 amino acids with respect to the amino acid sequence shown in SEQ ID NO: 1, which has fluorescence properties equivalent to those of the protein having the amino acid sequence shown in SEQ ID NO: 1, and which exists in the form of a monomer;

a recombinant vector having DNA encoding a fluorescent protein described in the following (a) or (b):

- (a) a protein having the amino acid sequence shown in SEQ ID NO: 1; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several 1 to 20 amino acids with respect to the amino acid sequence shown in SEQ ID NO: 1, which has fluorescence properties equivalent to those of the protein having the amino acid sequence shown in SEQ ID NO: 1, and which exists in the form of a monomer.;

a transformant having the DNA encoding a fluorescent protein described in the following

(a) or (b):

- (a) a protein having the amino acid sequence shown in SEQ ID NO: 1; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several 1 to 20 amino acids with respect to the amino acid sequence shown in SEQ ID NO: 1, which has fluorescence properties equivalent to those of the protein having the amino acid sequence shown in SEQ ID NO: 1, and which exists in the form of a monomer;

or a fusion protein, which consists of the fluorescent protein according to claim 1 and another protein.

- 19. (Withdrawn) A chromoprotein described in the following (a) or (b):
- (a) a protein having the amino acid sequence shown in SEQ ID NO: 37; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several 1 to 20 amino acids with respect to the amino acid sequence shown in SEQ ID NO: 37, and which has light-absorbing properties.
 - 20. (Withdrawn) A fluorescent protein described in the following (a) or (b):
 - (a) a protein having the amino acid sequence shown in SEQ ID NO: 39; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several 1 to 20 amino acids with respect to the amino acid sequence shown in SEQ ID NO: 39, and which has fluorescence properties.
 - 21. (Withdrawn) A fluorescent protein described in the following (a) or (b):
 - (a) a protein having the amino acid sequence shown in SEQ ID NO: 41, 43, 45, or 47; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several 1 to 20 amino acids with respect to the amino acid sequence shown in SEQ ID NO: 41, 43, 45, or 47, which has fluorescence properties, and which has a stokes shift of 100 nm or greater.
 - 22. (Withdrawn) DNA encoding a chromoprotein described in the following (a) or (b):
 - (a) a protein having the amino acid sequence shown in SEQ ID NO: 37; or

- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several 1 to 20 amino acids with respect to the amino acid sequence shown in SEQ ID NO: 37, and which has light-absorbing properties.
- 23. (Withdrawn) DNA encoding a fluorescent protein described in the following (a) or (b):
 - (a) a protein having the amino acid sequence shown in SEQ ID NO: 39; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several 1 to 20 amino acids with respect to the amino acid sequence shown in SEQ ID NO: 39, and which has fluorescence properties.
- 24. (Withdrawn) DNA encoding a fluorescent protein described in the following (a) or (b):
 - (a) a protein having the amino acid sequence shown in SEQ ID NO: 41, 43, 45, or 47; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several 1 to 20 amino acids with respect to the amino acid sequence shown in SEQ ID NO: 41, 43, 45, or 47, which has fluorescence properties, and which has a stokes shift of 100 nm or greater.
 - 25. (Withdrawn) DNA described in the following (a) or (b):
 - (a) DNA having the nucleotide sequence shown in SEQ ID NO: 38; or
- (b) DNA, which has a nucleotide sequence comprising a deletion, substitution, and/or addition of one or several 1 to 60 nucleotides with respect to the nucleotide sequence shown in

SEQ ID NO: 38, and which has a nucleotide sequence encoding a protein that has lightabsorbing properties.

- 26. (Withdrawn) DNA described in the following (a) or (b):
- (a) DNA having the nucleotide sequence shown in SEQ ID NO: 40; or
- (b) DNA, which has a nucleotide sequence comprising a deletion, substitution, and/or addition of one or several 1 to 60 nucleotides with respect to the nucleotide sequence shown in SEQ ID NO: 40, and which has a nucleotide sequence encoding a protein that has fluorescence properties.
 - 27. (Withdrawn) DNA described in the following (a) or (b):
 - (a) DNA having the nucleotide sequence shown in SEQ ID NO: 42, 44, 46 or 48; or
- (b) DNA, which has a nucleotide sequence comprising a deletion, substitution, and/or addition of one or several 1 to 60 nucleotides with respect to the nucleotide sequence shown in SEQ ID NO: 42, 44, 46 or 48, and which has a nucleotide sequence encoding a protein that has fluorescence properties and has a stokes shift of 100 nm or greater.
 - 28. (Withdrawn) A recombinant vector having the DNA according to claim 22.
 - 29. (Withdrawn) A transformant having the DNA according to claim 22.
- 30. (Withdrawn) A fusion protein, which consists of the protein according to claim 19 and another protein.

- 31. (Withdrawn) The fusion protein according to claim 30, wherein another protein is a protein that localizes in a cell.
- 32. (Withdrawn) The fusion protein according to claim 30, wherein another protein is a protein specific to a cell organella.
- 33. (Withdrawn) The fusion protein according to claim 30, wherein another protein is a fluorescent protein.
- 34. (Withdrawn) The fusion protein according to claim 33, which generates intramolecular FRET.
- 35. (Withdrawn)A method for analyzing the localization or dynamics of a protein in a cell, which is characterized in that the fusion protein according to claim 30 is allowed to express in the cell.
- 36. (Withdrawn-Currently Amended) A reagent kit, which comprises: the fluorescent protein of claim 19;

DNA encoding a chromoprotein described in the following (a) or (b):

(a) a protein having the amino acid sequence shown in SEQ ID NO: 37; or

(b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several 1 to 20 amino acids with respect to the amino acid sequence shown in SEQ ID NO: 37, and which has light-absorbing properties;

a recombinant vector having DNA encoding a chromoprotein described in the following (a) or (b):

- (a) a protein having the amino acid sequence shown in SEQ ID NO: 37; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several 1 to 20 amino acids with respect to the amino acid sequence shown in SEQ ID NO: 37, and which has light-absorbing properties; a transformant having DNA encoding a chromoprotein described in the following (a) or (b):
 - (a) a protein having the amino acid sequence shown in SEQ ID NO: 37; or
- (b) a protein, which has an amino acid sequence comprising a deletion, substitution, and/or addition of one or several 1 to 20 amino acids with respect to the amino acid sequence shown in SEQ ID NO: 37, and which has light-absorbing properties; or a fusion protein which consists of the protein according to claim 19 and another protein.